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NEWS 4 OCT 07 Multiple databases enhanced for more flexible patent
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NEWS 5 OCT 22 Current-awareness alert (SDI) setup and editing
enhanced
NEWS 6 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT
Applications
NEWS 7 OCT 24 CHEMLIST enhanced with intermediate list of
pre-registered REACH substances
NEWS 8 NOV 21 CAS patent coverage to include exemplified prophetic
substances identified in English-, French-, German-,
and Japanese-language basic patents from 2004-present
NEWS 9 NOV 26 MARPAT enhanced with FSORT command
NEWS 10 NOV 26 MEDLINE year-end processing temporarily halts
availability of new fully-indexed citations
NEWS 11 NOV 26 CHEMSAFE now available on STN Easy
NEWS 12 NOV 26 Two new SET commands increase convenience of STN
searching
NEWS 13 DEC 01 ChemPort single article sales feature unavailable
NEWS 14 DEC 12 GBFULL now offers single source for full-text
coverage of complete UK patent families

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AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS LOGIN Welcome Banner and News Items
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Enter NEWS followed by the item number or name to see news on that
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10/530,646

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=> reg

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Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=) for a list of commands which can be used in this file.

=> fil reg

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FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0

DICTIONARY FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

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<http://www.cas.org/support/stngen/stdoc/properties.html>

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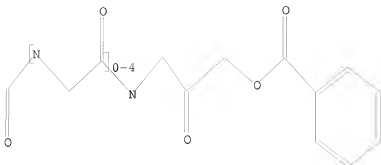
Uploading C:\Program Files\Stnexp\Queries\10530646\Claim 8.str

L1 STRUCTURE UPLOADED

=> dis

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

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=> s l1 sss full
FULL SEARCH INITIATED 15:51:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12060 TO ITERATE
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100.0% PROCESSED 12060 ITERATIONS 976 ANSWERS
SEARCH TIME: 00.00.01
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L2 976 SEA SSS FUL L1
```

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=> fil hcap
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 178.36 178.57
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FILE 'HCAPLUS' ENTERED AT 15:51:45 ON 12 DEC 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 12 Dec 2008 VOL 149 ISS 25
FILE LAST UPDATED: 11 Dec 2008 (20081211/ED)
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HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

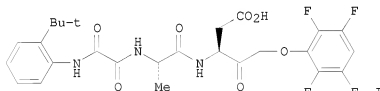
This file contains CAS Registry Numbers for easy and accurate substance identification.

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L3          164 L2

=> 13 and (pd<20050111)
      25919361 PD<20050111
      (PD<20050111)
L4          142 L3 AND (PD<20050111)

=> d 14 ibib abs hitstr 1-10

L4  ANSWER 1 OF 142  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:      2005:1065682  HCAPLUS
DOCUMENT NUMBER:      143:432006
TITLE:                First-in-Class Pan Caspase Inhibitor Developed for the
                        Treatment of Liver Disease
AUTHOR(S):            Linton, Steven D.; Aja, Teresa; Armstrong, Robert A.;
                        Bai, Xu; Chen, Long-Shiuh; Chen, Ning; Ching, Brett;
                        Contreras, Patricia; Diaz, Jose-Luis; Fisher, Craig
                        D.; Fritz, Lawrence C.; Gladstone, Patricia; Groessl,
                        Todd; Gu, Xin; Herrmann, Julia; Hirakawa, Brad P.;
                        Hoglen, Niel C.; Jahangiri, Kathy G.; Kalish, Vincent
                        J.; Karanewsky, Donald S.; Kodandapani, Lalitha;
                        Krebs, Joseph; McQuiston, Jeff; Meduna, Steven P.;
                        Nalley, Kip; Robinson, Edward D.; Sayers, Robert O.;
                        Sebring, Kristen; Spada, Alfred P.; Ternansky, Robert
                        J.; Tomaselli, Kevin J.; Ullman, Brett R.; Valentino,
                        Karen L.; Weeks, Suzanne; Winn, David; Wu, Joe C.;
                        Yeo, Pauline; Zhang, Cheng-zhi
CORPORATE SOURCE:     Idun Pharmaceuticals, San Diego, CA, 92121, USA
SOURCE:               Journal of Medicinal Chemistry (2005),
                        48(22), 6779-6782
                        CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER:            American Chemical Society
DOCUMENT TYPE:        Journal
LANGUAGE:             English
OTHER SOURCE(S):      CASREACT 143:432006
GI
```



AB A series of oxamyl dipeptides were optimized for pan caspase inhibition, antiapoptotic cellular activity and in vivo efficacy. This structure-activity relationship study focused on the P4 oxamides and warhead moieties. Primarily on the basis of in vitro data, inhibitors

were selected for study in a murine model of α -Fas-induced liver injury. IDN-6556 (I) was further profiled in addnl. in vivo models and pharmacokinetic studies. This first-in-class caspase inhibitor is now the subject of two Phase II clin. trials, evaluating its safety and efficacy for use in liver disease.

IT 254749-48-9P 409367-56-2P 409367-61-9P
409367-77-7P

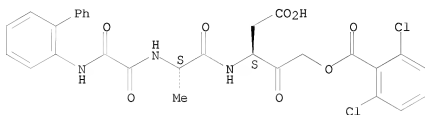
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(first-in-class pan caspase inhibitor developed for treatment of liver disease)

RN 254749-48-9 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, (3S)-3-[[[(2S)-2-[[2-[(1,1'-biphenyl)-2-ylamino]-2-oxoacetyl]amino]-1-oxopropyl]amino]-4-carboxy-2-oxobutyl ester (CA INDEX NAME)

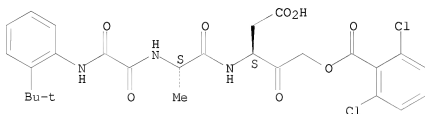
Absolute stereochemistry.



RN 409367-56-2 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, (3S)-4-carboxy-3-[[[(2S)-2-[[2-[[2-(1,1-dimethylethyl)phenyl]amino]-2-oxoacetyl]amino]-1-oxopropyl]amino]-2-oxobutyl ester (CA INDEX NAME)

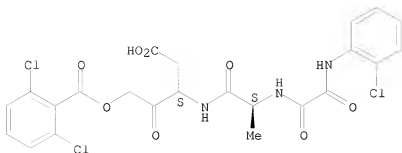
Absolute stereochemistry.



RN 409367-61-9 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, (3S)-4-carboxy-3-[[[(2S)-2-[[2-[[2-(2-chlorophenyl)amino]-2-oxoacetyl]amino]-1-oxopropyl]amino]-2-oxobutyl ester (CA INDEX NAME)

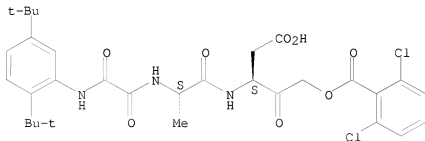
Absolute stereochemistry.



RN 409367-77-7 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, (3S)-3-[[[(2S)-2-[[2-[[2,5-bis(1,1-dimethylethyl)phenyl]amino]-2-oxoacetyl]amino]-1-oxopropyl]amino]-4-carboxy-2-oxobutyl ester (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 142 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1014174 HCAPLUS

DOCUMENT NUMBER: 143:452147

TITLE: Synthesis and evaluation of novel dipeptidyl benzoyloxymethyl ketones as caspase inhibitors

AUTHOR(S): Nedev, Hinyu N.; Klaiman, Guy; LeBlanc, Andrea; Saragovi, H. Uri

CORPORATE SOURCE: Department of Pharmacology and Therapeutics, Lady Davis Institute for Medical Research, McGill University, Jewish General Hospital, Montreal, QC, H3T 1E2, Can.

SOURCE: Biochemical and Biophysical Research Communications (2005), 336(2), 397-400
CODEN: BBRC9; ISSN: 0006-291X

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 143:452147

AB We describe novel peptide-based caspase inhibitors. Potent and comparatively selective compds. containing a dipeptide scaffold and a substituted oxymethyl ketone as a warhead were developed. The newly

synthesized compds. were tested for inhibition in in vitro enzymic assays of caspases-1, -3, -6, -8, and -9. The benzoyloxycarbonyl-phenylglycyl-aspartyl benzoyloxymethyl ketone (Z-Phg-Asp-CH₂OCO-Ph, coded as HU44) was the most potent inhibitor of caspase-1 and caspase-3. Of several analogs of HU44 that were made, the β-Asp Me ester (2) is an effective inhibitor against caspase-3 and caspase-8, and less effective against caspase-1. These compds. did not inhibit caspase-6 and caspase-9 significantly.

IT 869117-83-9P

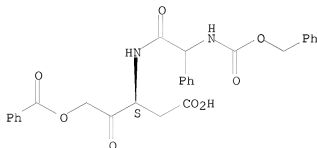
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(synthesis and evaluation of dipeptidyl benzoyloxymethyl ketones as caspase inhibitors)

RN 869117-83-9 HCAPLUS

CN Pentanoic acid, 5-(benzoyloxy)-4-oxo-3-[[2-phenyl-2-[[[(phenylmethoxy)carbonyl]amino]acetyl]amino]-, (3S)- (CA INDEX NAME)

Absolute stereochemistry.



IT 869117-84-0 869117-86-2

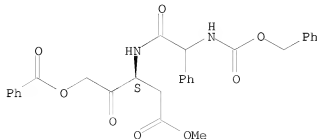
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(synthesis and evaluation of dipeptidyl benzoyloxymethyl ketones as caspase inhibitors)

RN 869117-84-0 HCAPLUS

CN Pentanoic acid, 5-(benzoyloxy)-4-oxo-3-[[2-phenyl-2-[[[(phenylmethoxy)carbonyl]amino]acetyl]amino]-, methyl ester, (3S)- (CA INDEX NAME)

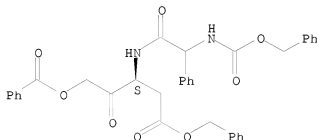
Absolute stereochemistry.



RN 869117-86-2 HCAPLUS

CN Pentanoic acid, 5-(benzoyloxy)-4-oxo-3-[[[2-phenyl-2-
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 (CA INDEX NAME)

Absolute stereochemistry.



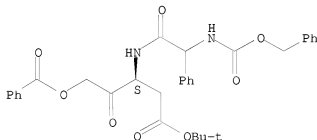
IT 869117-89-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthesis and evaluation of dipeptidyl benzoyloxymethyl ketones as
 caspase inhibitors)

RN 869117-89-5 HCAPLUS

CN Pentanoic acid, 5-(benzoyloxy)-4-oxo-3-[[[2-phenyl-2-
 [[(phenylmethoxy)carbonyl]amino]acetyl]amino]-, 1,1-dimethylethyl ester,
 (3S)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 142 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:864008 HCAPLUS

DOCUMENT NUMBER: 143:401965

TITLE: Dynamic imaging of protease activity with
 fluorescently quenched activity-based probes

AUTHOR(S): Blum, Galia; Mullins, Stefanie R.; Keren, Kinneret;
 Fonovic, Marko; Jedeszko, Christopher; Rice, Mark J.;
 Sloane, Bonnie F.; Boggy, Matthew

CORPORATE SOURCE: Department of Pathology, Stanford University School of
 Medicine, Stanford, CA, 94305, USA

SOURCE: Nature Chemical Biology (2005), 1(4),
203-209
CODEN: NCBABT; ISSN: 1552-4450
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 143:401965

AB Protease activity is tightly regulated in both normal and disease conditions. However, it is often difficult to monitor the dynamic nature of this regulation in the context of a live cell or whole organism. To address this limitation, we developed a series of quenched activity-based probes (qABPs) that become fluorescent upon activity-dependent covalent modification of a protease target. These reagents freely penetrate cells and allow direct imaging of protease activity in living cells. Targeted proteases are directly identified and monitored biochem. by virtue of the resulting covalent tag, thereby allowing unambiguous assignment of protease activities observed in imaging studies. We report here the design and synthesis of a selective, cell-permeable qABP for the study of papain-family cysteine proteases. This probe is used to monitor real-time protease activity in live human cells with fluorescence microscopy techniques as well as standard biochem. methods.

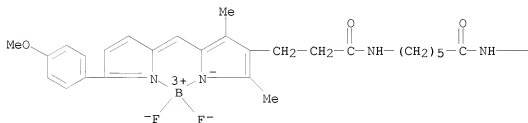
IT 867022-32-0P

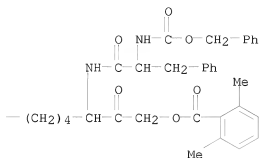
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(dynamic imaging of protease activity with fluorescently quenched activity-based probes)

RN 867022-32-0 HCAPLUS

CN Boron, difluoro[phenylmethyl (3S,6S)-6-[2-[(2,6-dimethylbenzoyl)oxy]acetyl]-21-[5-[[5-(4-methoxyphenyl)-2H-pyrrol-2-ylidene-κN]methyl]-2,4-dimethyl-1H-pyrrol-3-yl-κN]-4,12,19-trioxo-3-(phenylmethyl)-2,5,11,18-tetraazaheneicosanoato]-, (T-4)- (CA INDEX NAME)

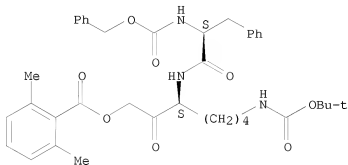
PAGE 1-A





IT 866951-92-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (dynamic imaging of protease activity with fluorescently quenched
 activity-based probes)
 RN 866951-92-0 HCAPLUS
 CN Benzoic acid, 2,6-dimethyl-, (3S)-7-[[[(1,1-dimethylethoxy)carbonyl]amino]-
 2-oxo-3-[[[(2S)-1-oxo-3-phenyl-2-
 [[(phenylmethoxy)carbonyl]amino]propyl]amino]heptyl ester (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 142 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:567513 HCAPLUS
 DOCUMENT NUMBER: 143:262351
 TITLE: Activity-based probes that target diverse cysteine
 protease families
 AUTHOR(S): Kato, Daisuke; Boatright, Kelly M.; Berger, Alicia B.;
 Nazif, Tamim; Blum, Galia; Ryan, Ciara; Chehade,
 Kareem A. H.; Salvesen, Guy S.; Boggyo, Matthew
 CORPORATE SOURCE: Department of Pathology, Stanford University School of
 Medicine, Stanford, CA, 940305, USA
 SOURCE: Nature Chemical Biology (2005), 1(1), 33-38
 CODEN: NCBABT; ISSN: 1552-4450
 PUBLISHER: Nature Publishing Group

DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:262351

AB Proteases are one of the largest and best-characterized families of enzymes in the human proteome. Unfortunately, the understanding of protease function in the context of complex proteolytic cascades remains in its infancy. One major reason for this gap in understanding is the lack of technologies that allow direct assessment of protease activity. We report here an optimized solid-phase synthesis protocol that allows rapid generation of activity-based probes (ABPs) targeting a range of cysteine protease families. These reagents selectively form covalent bonds with the active-site thiol of a cysteine protease, allowing direct biochem. profiling of protease activities in complex proteomes. We present a number of probes containing either a single amino acid or an extended peptide sequence that target caspases, legumains, gingipains and cathepsins. Biochem. studies using these reagents highlight their overall utility and provide insight into the biochem. functions of members of these protease families.

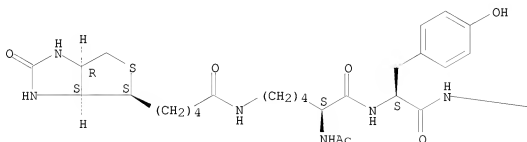
IT 863766-76-1P 863766-77-2P 863766-78-3P
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 863766-82-9P 863766-83-0P 863766-84-1P
 863766-85-2P 863766-86-3P 863766-87-4P
 RL: ARU (Analytical role, unclassified); BSU (Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (activity-based probes that target diverse cysteine protease families)

RN 863766-76-1 HCAPLUS

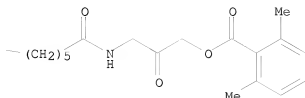
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Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

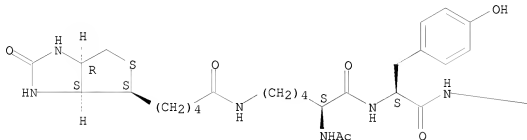


RN 863766-77-2 HCAPLUS

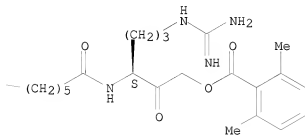
CN L-Tyrosinamide, N2-acetyl-N6-[5-[(3aS, 4S, 6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-L-lysyl-N-[6-[(1S)-4-[(aminoiminomethyl)amino]-1-[(2,6-dimethylbenzoyl)oxy]acetyl]butyl]amino]-6-oxohexyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

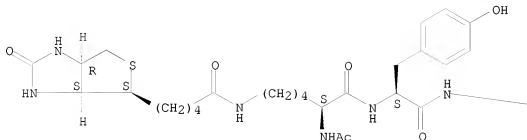


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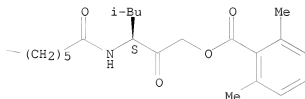
CN L-Tyrosinamide, N2-acetyl-N6-[5-[(3aS, 4S, 6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-L-lysyl-N-[6-[(1S)-1-[(2,6-dimethylbenzoyl)oxy]acetyl]-3-methylbutyl]amino]-6-oxohexyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

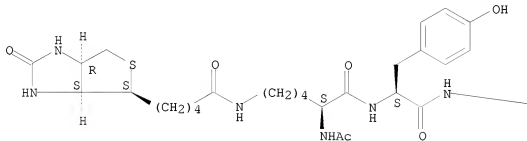


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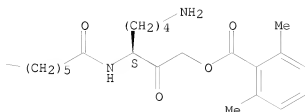
CN L-Tyrosinamide, N2-acetyl-N6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-L-lysyl-N-[6-[[[(1S)-5-amino-1-[[[(2,6-dimethylbenzoyl)oxy]acetyl]pentyl]amino]-6-oxohexyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

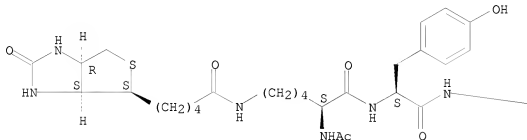


RN 863766-80-7 HCAPLUS

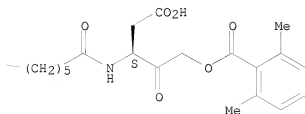
CN L-Tyrosinamide, N2-acetyl-N6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-L-lysyl-N-[6-[(1S)-1-(carboxymethyl)-3-[(2,6-dimethylbenzoyl)oxy]-2-oxopropyl]amino]-6-oxohexyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



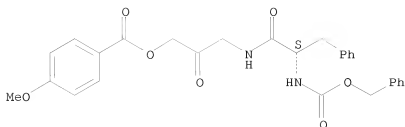
PAGE 1-B



RN 863766-81-8 HCAPLUS

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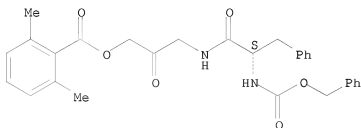
Absolute stereochemistry.



RN 863766-82-9 HCAPLUS

CN Benzoic acid, 2,6-dimethyl-, 2-oxo-3-[[[(2S)-1-oxo-3-phenyl-2-
[[[(phenylmethoxy)carbonyl]amino]propyl]amino]propyl ester (CA INDEX NAME)

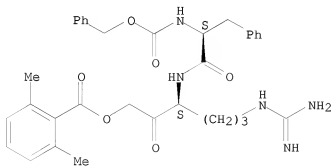
Absolute stereochemistry.



RN 863766-83-0 HCAPLUS

CN Benzoic acid, 2,6-dimethyl-, (3S)-6-[(aminoiminomethyl)amino]-2-oxo-3-
[[[(2S)-1-oxo-3-phenyl-2-[(phenylmethoxy)carbonyl]amino]propyl]amino]hexyl
ester (CA INDEX NAME)

Absolute stereochemistry.

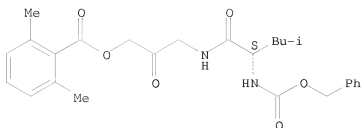


RN 863766-84-1 HCAPLUS

CN Benzoic acid, 2,6-dimethyl-, 3-[[[(2S)-4-methyl-1-oxo-2-
[[[(phenylmethoxy)carbonyl]amino]pentyl]amino]-2-oxopropyl ester (CA INDEX
NAME)

Absolute stereochemistry.

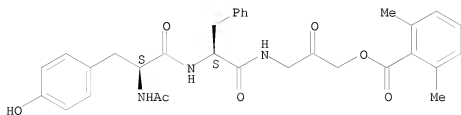
10/530,646



RN 863766-85-2 HCAPLUS

CN L-Phenylalaninamide, N-acetyl-L-tyrosyl-N-[3-[(2,6-dimethylbenzoyl)oxy]-2-oxopropyl]- (CA INDEX NAME)

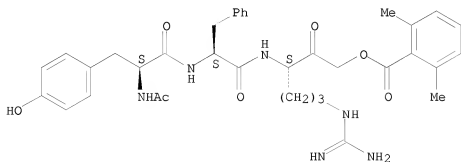
Absolute stereochemistry.



RN 863766-86-3 HCAPLUS

CN L-Phenylalaninamide, N-acetyl-L-tyrosyl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-[[[(2,6-dimethylbenzoyl)oxy]acetyl]butyl]- (CA INDEX NAME)

Absolute stereochemistry.

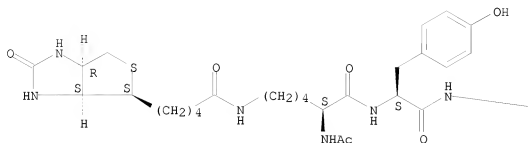


RN 863766-87-4 HCAPLUS

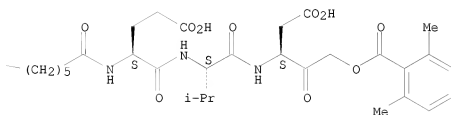
CN L-Valinamide, N2-acetyl-N6-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-L-lysyl-L-tyrosyl-6-amino-2-aminohexanoyl-L-alpha-glutamyl-N-[(1S)-1-(carboxymethyl)-3-[(2,6-dimethylbenzoyl)oxy]-2-oxopropyl]- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

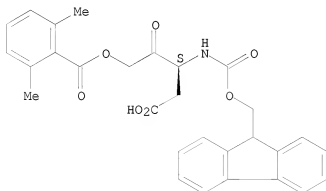


PAGE 1-B



IT 260434-73-9P 863766-65-8DP, resin bound
 942347-28-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (activity-based probes that target diverse cysteine protease families)
 RN 260434-73-9 HCAPLUS
 CN Benzoic acid, 2,6-dimethyl-, (3S)-4-carboxy-3-[[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-2-oxobutyl ester (CA INDEX NAME)

Absolute stereochemistry.

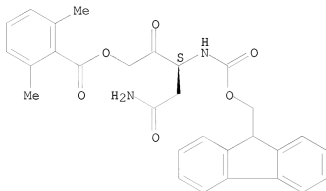


RN 863766-65-8 HCAPLUS

10/530,646

CN Benzoic acid, 2,6-dimethyl-, (3S)-5-amino-3-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-2,5-dioxopentyl ester (CA INDEX NAME)

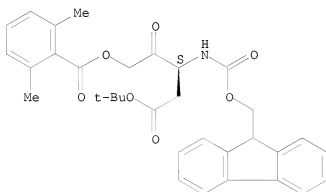
Absolute stereochemistry.



RN 942347-28-6 HCAPLUS

CN Benzoic acid, 2,6-dimethyl-, (3S)-5-(1,1-dimethylethoxy)-3-[[(9H-fluoren-9-ylmethoxy)carbonyl]amino]-2,5-dioxopentyl ester (CA INDEX NAME)

Absolute stereochemistry.



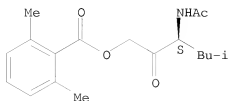
IT 863766-89-6P 863766-90-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(activity-based probes that target diverse cysteine protease families)

RN 863766-89-6 HCAPLUS

CN Benzoic acid, 2,6-dimethyl-, (3S)-3-(acetylamino)-5-methyl-2-oxohexyl ester (CA INDEX NAME)

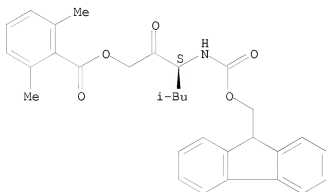
Absolute stereochemistry.



RN 863766-90-9 HCAPLUS

CN Benzoic acid, 2,6-dimethyl-, (3S)-3-[[[9H-fluoren-9-ylmethoxy]carbonyl]amino]-5-methyl-2-oxohexyl ester (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 142 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:557565 HCAPLUS

DOCUMENT NUMBER: 143:472445

TITLE: Neuroprotection by the caspase-1 inhibitor Ac-YVAD-(acyloxy)mk in experimental neuroAIDS is independent from IL-1 β generation

AUTHOR(S): Corasaniti, M. T.; Russo, R.; Amantea, D.; Gliozzi, M.; Siviglia, E.; Stringaro, A. R.; Malorni, W.; Melino, G.; Bagetta, G.

CORPORATE SOURCE: Department of Pharmacobiological Sciences, University 'Magna Graecia' of Catanzaro, Catanzaro, Italy

SOURCE: Cell Death and Differentiation (2005), 12(Suppl. 1), 999-1001

CODEN: CDDIEK; ISSN: 1350-9047

PUBLISHER: Nature Publishing Group

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The HIV-1 gp120 elevates cytochrome c immunoreactivity into the cell cytoplasm of rat brain neocortex and this is an early event that occurs 6 h following a single intracerebral injection of the viral protein. Acetyl-Tyr-Val-Ala-Asp-2,6-dimethylbenzoyloxy-methylketone, an inhibitor of caspase-1, was able to counteract gp120-induced cytosolic cytochrome c

elevation and this without affecting IL-1 β levels. Collectively, these observations suggest that Ac-YVAD-(acyloxy)mk prevents cytochrome c expression into the cytosol through a mechanism independent from inhibition of IL-1 β generation.

IT 154674-81-4

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

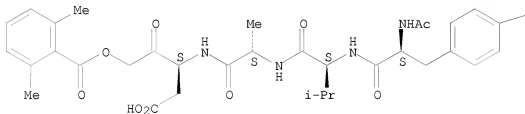
(caspase-1 inhibitor acetyl-Tyr-Val-Ala-Asp-2,6-dimethylbenzoyloxy-methylketone showed neuroprotection independent of interleukin-1 β generation in neuroAIDS rat model)

RN 154674-81-4 HCAPLUS

CN L-Alaninamide, N-acetyl-L-tyrosyl-L-valyl-N-[(1S)-1-(carboxymethyl)-3-[(2,6-dimethylbenzoyl)oxy]-2-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—OH

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 142 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:543231 HCAPLUS

DOCUMENT NUMBER: 144:186920

TITLE: Structural analysis of caspase-1 inhibitors derived from tethering

AUTHOR(S): O'Brien, Tom; Fahr, Bruce T.; Sopko, Michelle M.; Lam, Joni W.; Waal, Nathan D.; Raimundo, Brian C.; Purkey, Hans E.; Pham, Phuogly; Romanowski, Michael J.

CORPORATE SOURCE: Department of Biology, Sunesis Pharmaceuticals Inc., USA

SOURCE: Acta Crystallographica, Section F: Structural Biology and Crystallization Communications (2005), F61(5), 451-458

CODEN: ACSFCL; ISSN: 1744-3091

URL: <http://journals.iucr.org/f/issues/2005/05/00/sx5030/sx5030.pdf>

PUBLISHER: Blackwell Publishing Ltd.

DOCUMENT TYPE: Journal; (online computer file)

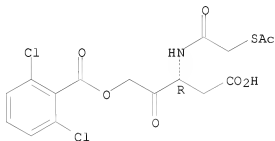
LANGUAGE: English

AB Caspase-1 is a key endopeptidase responsible for the post-translational processing of the IL-1 β and IL-18 cytokines and small-mol. inhibitors

that modulate the activity of this enzyme are predicted to be important therapeutic treatments for many inflammatory diseases. A fragment-assembly approach, accompanied by structural anal., was employed to generate caspase-1 inhibitors. With the aid of Tethering with extenders (small mols. that bind to the active-site cysteine and contain a free thiol), two novel fragments that bound to the active site and made a disulfide bond with the extender were identified by mass spectrometry. Direct linking of each fragment to the extender generated submicromolar reversible inhibitors that significantly reduced secretion of IL-1 β but not IL-6 from human peripheral blood mononuclear cells. Thus, Tethering with extenders facilitated rapid identification and synthesis of caspase-1 inhibitors with cell-based activity and subsequent structural analyses provided insights into the enzyme's ability to accommodate different inhibitor-binding modes in the active site.

IT 874985-07-6
 RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (structure-based fragment assembly process using Tethering with extenders for structural anal. of caspase-1 inhibitors that display cell-based activity)
 RN 874985-07-6 HCAPLUS
 CN Benzoic acid, 2,6-dichloro-, (3R)-3-[[2-(acetylthio)acetyl]amino]-4-carboxy-2-oxobutyl ester (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 142 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2005:157268 HCAPLUS
 DOCUMENT NUMBER: 143:112404
 TITLE: Delay of Iris flower senescence by protease inhibitors
 AUTHOR(S): Pak, Caroline; van Doorn, Wouter G.
 CORPORATE SOURCE: Agrotechnology and Food Innovations (A & F), Wageningen University and Research Centre, Wageningen, 6700 AA, Neth.
 SOURCE: New Phytologist (2005), 165(2), 473-480
 CODEN: NEPHAV; ISSN: 0028-646X
 PUBLISHER: Blackwell Publishing Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Visible senescence of the flag tepals in Iris + hollandica (cv. Blue Magic) was preceded by a large increase in endoprotease activity. Just

before visible senescence about half of total endoprotease activity was apparently due to cysteine proteases, somewhat less than half to serine proteases, with a minor role of metalloproteases. Treatment of isolated tepals with the purported serine protease inhibitors AEBSF [4-(2-aminoethyl)-benzenesulfonyl fluoride] or DFP (diisopropyl-fluorophosphate) prevented the increase in endoprotease activity and considerably delayed or prevented the normal senescence symptoms. The specific cysteine protease-specific E-64d reduced maximum endoprotease activity by 30%, but had no effect on the time to visible senescence. Zinc chloride and aprotinin reduced maximum endoprotease activity by c. 50 and 40%, resp., and slightly delayed visible senescence. A proteasome inhibitor (Z-leu-leu-Nva-H) slightly delayed tepal senescence, which indicates that protein degradation in the proteasome may play a role in induction of the visible senescence symptoms. Thus, visible senescence is preceded by large-scale protein degradation, which is apparently mainly due to cysteine- and serine protease activity, and two (unspecific) inhibitors of serine proteases considerably delay the senescence symptoms.

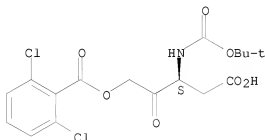
IT 857895-08-0

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(Iris flower senescence delay by protease inhibitors)

RN 857895-08-0 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, (3S)-4-carboxy-3-[[[(1,1-dimethylethoxy)carbonyl]amino]-2-oxobutyl ester (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 142 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:130294 HCAPLUS

DOCUMENT NUMBER: 142:392641

TITLE: Dipeptidyl aspartyl fluoromethylketones as potent caspase inhibitors: peptidomimetic replacement of the P2 α -amino acid by a α -hydroxy acid

AUTHOR(S): Wang, Yan; Guan, Lufeng; Jia, Shaojuan; Tseng, Ben; Drewe, John; Cai, Sui Xiong

CORPORATE SOURCE: Maxim Pharmaceuticals, San Diego, CA, 92121, USA
SOURCE: Bioorganic & Medicinal Chemistry Letters (2005), 15(5), 1379-1383

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English
 OTHER SOURCE(S): CASREACT 142:392641

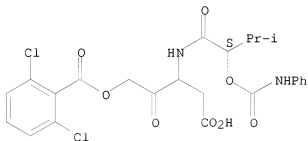
AB As a continuation of our SAR (structure activity relationship) studies of dipeptidyl aspartyl-fmk as caspase inhibitors, we explored the replacement of the P2 α -amino acid by a peptidomimetic α -hydroxy acid. These α -carbamoyl-alkylcarbonyl-aspartyl fluoromethylketones were found to be potent caspase inhibitors, and the SAR of these compds. is similar to the corresponding dipeptidyl aspartyl-fmk. MX1153, (S)-3-methyl-2-(phenylcarbamoyl)butanoyl-Asp-fmk, is identified as a potent broad-spectrum caspase inhibitor, and is selective for caspases vs. other proteases. MX1153 also has good activity in the cell apoptosis protection assays and is active in the mouse liver apoptosis model.

IT 582317-45-1P
 RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation and structure-activity relationship of dipeptidyl aspartyl fluoromethylketones as potent caspase inhibitors)

RN 582317-45-1 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, 4-carboxy-3-[[[(2S)-3-methyl-1-oxo-2-[[[(phenylamino)carbonyl]oxy]butyl]amino]-2-oxobutyl ester (CA INDEX NAME)

Absolute stereochemistry.

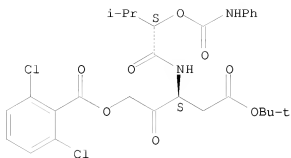


IT 329046-55-1P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and structure-activity relationship of dipeptidyl aspartyl fluoromethylketones as potent caspase inhibitors)

RN 329046-55-1 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, (3S)-5-(1,1-dimethylethoxy)-3-[[[(2S)-3-methyl-1-oxo-2-[[[(phenylamino)carbonyl]oxy]butyl]amino]-2,5-dioxopentyl ester (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 142 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:675705 HCAPLUS

DOCUMENT NUMBER: 141:207524

TITLE: Preparation of peptidyl irreversible caspase-3 inhibitors as active site probes

INVENTOR(S): Colucci, John; Giroux, Andre; Han, Yongxin; Methot, Nathalie; Nicholson, Donald W.; Roy, Sophie; Vaillancourt, John Paul; Tawa, Paul

PATENT ASSIGNEE(S): Merck Frosst Canada & Co., Can.

SOURCE: PCT Int. Appl., 70 pp.

CODEN: PIXXD2

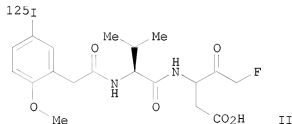
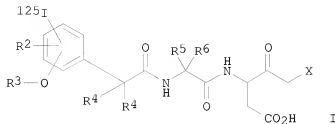
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069773	A1	20040819	WO 2004-CA152	20040205 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2514441	A1	20041019	CA 2004-2514441	20040205 <--
EP 1594819	A1	20051116	EP 2004-708291	20040205
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006519777	T	20060831	JP 2006-501408	20040205
US 20060069038	A1	20060330	US 2005-542684	20050719
PRIORITY APPLN. INFO.:			US 2003-445560P	P 20030207
			WO 2004-CA152	W 20040205
OTHER SOURCE(S):		MARPAT 141:207524		
GI				



AB The invention encompasses compds. I [X is halo or O-W-Z, where W is a bond, CH₂, CO or COCH₂ and Z is H, alkyl, cycloalkyl, Ph, etc.; R₂ is H, halo, hydroxy, nitro, cyano, alkyl, etc.; R₃ is Ph or (un)substituted alkyl; R₄ is H, halo, hydroxy, (un)substituted alkyl or alkoxy; R₅ is H, Ph, naphthyl, (un)substituted alkyl or cycloalkyl and R₆ is H or R₅ and R₆ together form a ring] which are useful for determining whether a caspase has been activated in cells or in tissues of animal models of various pathologies. Furthermore, through competition based assays, these caspase active site probes can be used to calculate the percentage of occupancy of active caspases by other, unlabeled inhibitors. Thus, peptide II was prepared via coupling reactions of Me (5-iodo-2-methoxyphenyl)acetate, L-valine tert-Bu ester hydrochloride, and tert-Bu 3-amino-2,3,5-trideoxy-5-fluoropentionate, followed by tributylstannylation, iodination, and deprotection with TFA. II was assayed for inhibition of a subset of caspases and for detection of active caspases in protein exts.

IT 741293-00-5P 741293-01-6P 741293-02-7P

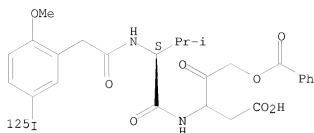
RL: DGN (Diagnostic use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of peptidyl irreversible caspase-3 inhibitors as active site probes)

RN 741293-00-5 HCAPLUS

CN Pentanoic acid, 5-(benzoyloxy)-3-[[[(2S)-2-[[[5-(iodo-125I)-2-methoxyphenyl]acetyl]amino]-3-methyl-1-oxobutyl]amino]-4-oxo- (9CI) (CA INDEX NAME)

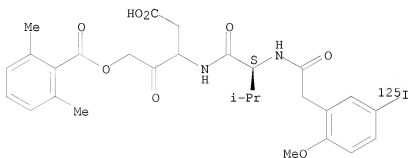
Absolute stereochemistry.



RN 741293-01-6 HCAPLUS

CN Benzoic acid, 2,6-dimethyl-, 4-carboxy-3-[[[(2S)-2-[[[5-(iodo-125I)-2-methoxyphenyl]acetyl]amino]-3-methyl-1-oxobutyl]amino]-2-oxobutyl ester (9CI) (CA INDEX NAME)

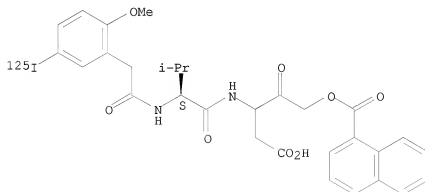
Absolute stereochemistry.



RN 741293-02-7 HCAPLUS

CN 1-Naphthalenecarboxylic acid, 4-carboxy-3-[[[(2S)-2-[[[5-(iodo-125I)-2-methoxyphenyl]acetyl]amino]-3-methyl-1-oxobutyl]amino]-2-oxobutyl ester (9CI) (CA INDEX NAME)

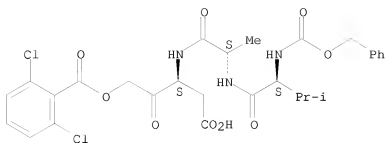
Absolute stereochemistry.



ACCESSION NUMBER: 2004:606353 HCAPLUS
 DOCUMENT NUMBER: 141:151000
 TITLE: Methods for reducing mortality associated with acute myocardial infarction
 INVENTOR(S): Bell, Leonard
 PATENT ASSIGNEE(S): Alexion Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 31 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004062578	A2	20040729	WO 2004-US1189	20040106 <--
WO 2004062578	A3	20051013		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ				
US 20040219147	A1	20041104	US 2003-339562	20030109 <--
US 7361339	B2	20080422		
AU 2004204834	A1	20040729	AU 2004-204834	20040106 <--
AU 2004204834	B2	20080828		
CA 2511659	A1	20040729	CA 2004-2511659	20040106 <--
EP 1592383	A2	20051109	EP 2004-700408	20040106
EP 1592383	A3	20051207		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006516978	T	20060713	JP 2006-500995	20040106
PRIORITY APPLN. INFO.:				
			US 2003-339562	A 20030109
			WO 2004-US1189	W 20040106
AB	Methods of reducing mortality in myocardial infarction patients receiving a stent in connection with percutaneous transluminal coronary angioplasty include administering an anti-inflammatory compound to the patient. In one embodiment, the anti-inflammatory compound is an antibody-to a complement component.			
IT	151594-01-3 153088-73-4 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (methods for reducing mortality associated with acute myocardial infarction using an antiinflammatory agent)			
RN	151594-01-3 HCAPLUS			
CN	L-Alaninamide, N-[(phenylmethoxy)carbonyl]-L-valyl-N-[(1S)-1-(carboxymethyl)-3-[(2,6-dichlorobenzoyl)oxy]-2-oxopropyl]- (9CI) (CA INDEX NAME)			

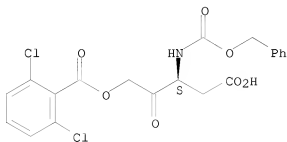
Absolute stereochemistry.



RN 153088-73-4 HCAPLUS

CN Benzoic acid, 2,6-dichloro-, (3S)-4-carboxy-2-oxo-3-
 [[(phenylmethoxy)carbonyl]amino]butyl ester (CA INDEX NAME)

Absolute stereochemistry.



=> fil reg

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

78.71	257.28
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0

DICTIONARY FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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Uploading C:\Program Files\Stnexp\Queries\10530646\Claim 8 CH2-10.str

L5 STRUCTURE UPLOADED

=> dis

L5 HAS NO ANSWERS

L5 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l5 sss full

FULL SEARCH INITIATED 15:57:48 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8087 TO ITERATE

100.0% PROCESSED 8087 ITERATIONS

13 ANSWERS

SEARCH TIME: 00.00.01

L6 13 SEA SSS FUL L5

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-8.00

CA SUBSCRIBER PRICE

FILE 'HCAPLUS' ENTERED AT 15:57:52 ON 12 DEC 2008

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FILE COVERS 1907 - 12 Dec 2008 VOL 149 ISS 25
 FILE LAST UPDATED: 11 Dec 2008 (20081211/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l6

L7 1 L6

=> d l7 ibib abs hitstr

L7 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2004:333680 HCAPLUS
 DOCUMENT NUMBER: 140:357669
 TITLE: Preparation of peptidyl activity-based probes for catalytically-active enzymes
 INVENTOR(S): Winn, David; Campbell, David Alan
 PATENT ASSIGNEE(S): Activx Biosciences, Inc., USA
 SOURCE: PCI Int. Appl., 61 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

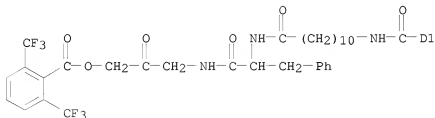
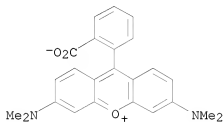
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WO 2004033397	A2	20040422	WO 2003-US32152	20031008
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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AU 2003282575	A1	20040504	AU 2003-282575	20031008
EP 1583726	A2	20051012	EP 2003-774762	20031008
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2006514824	T	20060518	JP 2004-543659	20031008
US 20070141624	A1	20070621	US 2006-530646	20060111
PRIORITY APPLN. INFO.:			US 2002-417664P	P 20021009
			WO 2003-US32152	W 20031008

OTHER SOURCE(S): MARPAT 140:357669

AB The invention provides compns. and methods for assessing profiles of

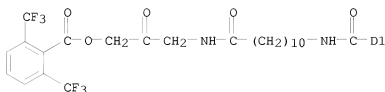
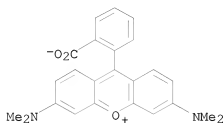
catalytically-active enzymes (e.g., a hydrolase, most preferably a cysteine protease) in compns. containing a plurality of proteins. The methods use activity-based probes (ABPs) that have an affinity moiety for directing the binding of the ABP to one or more catalytically-active target enzymes, a reactive group for forming a covalent bond at an active site of the target enzyme(s), and a TAG (e.g., a detectable label, preferably a fluorophore). ABPs TAG-L-CO(NHCHR2CO)nNHCHR1-RG [R1, R2 are H, alkyl optionally containing 1-3 heteroatoms N, O, or S, alkylaryl, -heteroaryl, or -phenyl; RG is a reactive group that reacts to form a covalent bond with a catalytically-active target enzyme; L is optionally present and is an alkyl or heteroalkyl group of 1-20 backbone atoms selected from NR, O, S or CR2, where R is H or alkyl; n is 1-4] or pharmaceutically-acceptable salts or complexes are claimed. One or more ABPs may be combined with a protein-containing sample under conditions for binding and reaction of the ABP(s) with target enzyme(s) that are present in the sample. The resulting products may then be used to assess the active enzyme profile of the sample and can be correlated to the presence, amount, or activity of one or more target enzyme(s) present in the original complex protein mixture. An example describes the synthesis of ANP

- IT TAMRA-NH(CH2)10CO-L-Asp-CH2OC6HF4-2,3,5,6, where TAMRA is a rhodamine dye.
 681812-82-8P 681812-85-1P 681812-86-2P
 681812-87-3P 681812-88-4P 681812-89-5P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (preparation of peptidyl activity-based probes for catalytically-active enzymes)
 RN 681812-82-8 HCAPLUS
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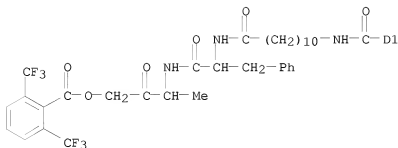
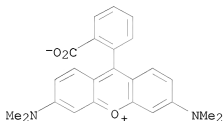
- RN 681812-85-1 HCAPLUS
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oxopropyl]amino]-11-oxoundecyl]amino]carbonyl]-2-carboxyphenyl]-3,6-bis(dimethylamino)-, inner salt (9CI) (CA INDEX NAME)



RN 681812-86-2 HCAPLUS

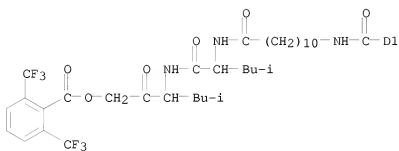
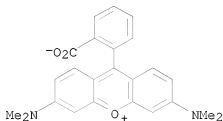
CN Xanthylum, 9-[4(or 5)-[(15S,18S)-22-[2,6-bis(trifluoromethyl)phenyl]-18-methyl-1,13,16,19,22-pentaoxo-15-(phenylmethyl)-21-oxa-2,14,17-triazadocos-1-yl]-2-carboxyphenyl]-3,6-bis(dimethylamino)-, inner salt (9CI) (CA INDEX NAME)



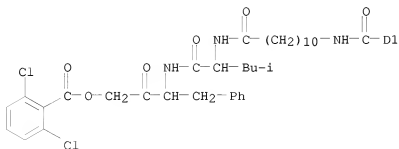
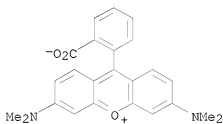
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CN Xanthylum, 9-[4(or 5)-[(15S,18S)-22-[2,6-bis(trifluoromethyl)phenyl]-15,18-bis(2-methylpropyl)-1,13,16,19,22-pentaoxo-21-oxa-2,14,17-

triazadocos-1-yl]-2-carboxyphenyl]-3,6-bis(dimethylamino)-, inner salt (9CI) (CA INDEX NAME)



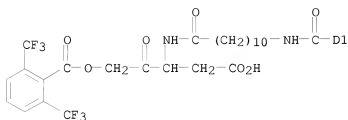
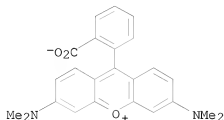
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10/530,646

RN 681812-89-5 HCAPLUS

CN Xanthylum, 9-[4(or 5)-[[[11-[(1S)-3-[[2,6-bis(trifluoromethyl)benzoyl]oxy]-1-(carboxymethyl)-2-oxopropyl]amino]-11-oxoundecyl]amino]carbonyl]-2-carboxyphenyl]-3,6-bis(dimethylamino)-, inner salt (9CI) (CA INDEX NAME)



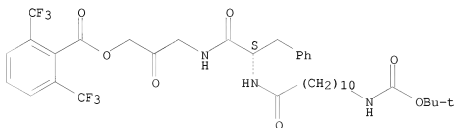
IT 681447-89-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of peptidyl activity-based probes for catalytically-active enzymes)

RN 681447-89-2 HCAPLUS

CN Benzoic acid, 2,6-bis(trifluoromethyl)-, (6S)-22,22-dimethyl-2,5,8,20-tetraoxo-6-(phenylmethyl)-21-oxa-4,7,19-triazatricos-1-yl ester (CA INDEX NAME)

Absolute stereochemistry.



=> fil reg

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

10/530,646

FULL ESTIMATED COST	21.59	457.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
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STRUCTURE FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0
DICTIONARY FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading C:\Program Files\Stnexp\Queries\10530646\Claim 1 Compound 1.str

L8 STRUCTURE UPLOADED

=> dis

L8 HAS NO ANSWERS

L8 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l8 sss full

FULL SEARCH INITIATED 16:05:31 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 8274 TO ITERATE

100.0% PROCESSED 8274 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.01

L9 7 SEA SSS FUL L8

=> hcap

L10 31 HCAP

10/530,646

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FULL ESTIMATED COST                186.27      643.50

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FILE COVERS 1907 - 12 Dec 2008 VOL 149 ISS 25
FILE LAST UPDATED: 11 Dec 2008 (20081211/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L11      1 L9
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=> d l11
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L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS ON STN
AN 2004:333680 HCAPLUS
DN 140:357669
TI Preparation of peptidyl activity-based probes for catalytically-active
   enzymes
IN Winn, David; Campbell, David Alan
PA Activx Biosciences, Inc., USA
SO PCT Int. Appl., 61 pp.
   CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2004033397	A2	20040422	WO 2003-US32152	20031008

WO 2004033397 A3 20060727

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2501831 A1 20040422 CA 2003-2501831 20031008

AU 2003282575 A1 20040504 AU 2003-282575 20031008

EP 1583726 A2 20051012 EP 2003-774762 20031008

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

JP 2006514824 T 20060518 JP 2004-543659 20031008

US 20070141624 A1 20070621 US 2006-530646 20060111

FRAI US 2002-417664P P 20021009

WO 2003-US32152 W 20031008

OS MARPAT 140:357669

=> d L11 ibib abs hitstr

L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:333680 HCAPLUS

DOCUMENT NUMBER: 140:357669

TITLE: Preparation of peptidyl activity-based probes for catalytically-active enzymes

INVENTOR(S): Winn, David; Campbell, David Alan

PATENT ASSIGNEE(S): Activx Biosciences, Inc., USA

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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AU 2003282575	A1	20040504	AU 2003-282575	20031008
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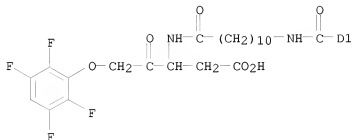
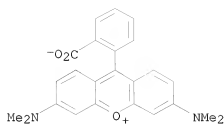
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 JP 2006514824 T 20060518 JP 2004-543659 20031008
 US 20070141624 A1 20070621 US 2006-530646 20060111
 PRIORITY APPLN. INFO.: US 2002-417664P P 20021009
 WO 2003-US32152 W 20031008

OTHER SOURCE(S): MARPAT 140:357669

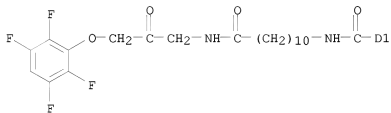
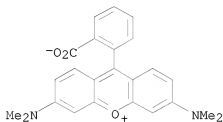
AB The invention provides comps. and methods for assessing profiles of catalytically-active enzymes (e.g., a hydrolase, most preferably a cysteine protease) in comps. containing a plurality of proteins. The methods use activity-based probes (ABPs) that have an affinity moiety for directing the binding of the ABP to one or more catalytically-active target enzymes, a reactive group for forming a covalent bond at an active site of the target enzyme(s), and a TAG (e.g., a detectable label, preferably a fluorophore). ABPs TAG-L-CO(NHCHR2CO)nNHCHR1-RG [R1, R2 are H, alkyl optionally containing 1-3 heteroatoms N, O, or S, alkylaryl, -heteroaryl, or -phenyl; RG is a reactive group that reacts to form a covalent bond with a catalytically-active target enzyme; L is optionally present and is an alkyl or heteroalkyl group of 1-20 backbone atoms selected from NR, O, S or CR2, where R is H or alkyl; n is 1-4] or pharmaceutically-acceptable salts or complexes are claimed. One or more ABPs may be combined with a protein-containing sample under conditions for binding and reaction of the ABP(s) with target enzyme(s) that are present in the sample. The resulting products may then be used to assess the active enzyme profile of the sample and can be correlated to the presence, amount, or activity of one or more target enzyme(s) present in the original complex protein mixture. An example describes the synthesis of ANP TAMRA-NH(CH2)10CO-L-Asp-CH2OC6HF4-2,3,5,6, where TAMRA is a rhodamine dye.

IT 681812-81-7P 681812-83-9P 681812-84-0P
 RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
 (preparation of peptidyl activity-based probes for catalytically-active enzymes)

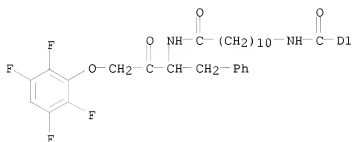
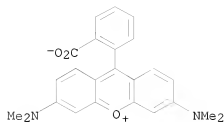
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RN 681812-83-9 HCAPLUS
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RN 681812-84-0 HCAPLUS
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IT 681447-86-9P

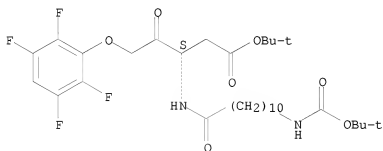
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of peptidyl activity-based probes for catalytically-active enzymes)

RN 681447-86-9 HCAPLUS

CN Pentanoic acid, 3-[[11-[[[(1,1-dimethylethoxy)carbonyl]amino]-1-oxoundecyl]amino]-4-oxo-5-(2,3,5,6-tetrafluorophenoxy)-, 1,1-dimethylethyl ester, (3S)- (CA INDEX NAME)

Absolute stereochemistry.



=> d que stat

L8 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

L9 7 SEA FILE=REGISTRY SSS FUL L8
 L11 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9

=> d his full

(FILE 'HOME' ENTERED AT 15:51:07 ON 12 DEC 2008)

FILE 'REGISTRY' ENTERED AT 15:51:17 ON 12 DEC 2008
 L1 STRUCTURE UPLOADED
 DIS
 L2 976 SEA SSS FUL L1
 FILE 'HCAPLUS' ENTERED AT 15:51:45 ON 12 DEC 2008
 L3 164 SEA ABB=ON PLU=ON L2
 L4 142 SEA ABB=ON PLU=ON L3 AND (PD<20050111)
 D L4 IBIB ABS HITSTR 1-10

FILE 'REGISTRY' ENTERED AT 15:57:23 ON 12 DEC 2008
 L5 STRUCTURE UPLOADED
 DIS
 L6 13 SEA SSS FUL L5

FILE 'HCAPLUS' ENTERED AT 15:57:52 ON 12 DEC 2008
 L7 1 SEA ABB=ON PLU=ON L6
 D L7 IBIB ABS HITSTR

FILE 'REGISTRY' ENTERED AT 16:01:35 ON 12 DEC 2008
 L8 STRUCTURE UPLOADED
 DIS
 L9 7 SEA SSS FUL L8
 L10 31 SEA ABB=ON PLU=ON HCAP

FILE 'HCAPLUS' ENTERED AT 16:05:45 ON 12 DEC 2008
 L11 1 SEA ABB=ON PLU=ON L9
 D L11
 D L11 IBIB ABS HITSTR
 D QUE STAT

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0
 DICTIONARY FILE UPDATES: 11 DEC 2008 HIGHEST RN 1083154-18-0

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

FILE HCAPLUS

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FILE COVERS 1907 - 12 Dec 2008 VOL 149 ISS 25

FILE LAST UPDATED: 11 Dec 2008 (20081211/ED)

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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